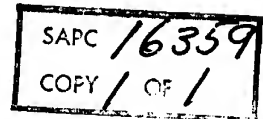


OK to send  
 [signature]



APQ-56 Improvement Program

May 28, 1957

SYSTEM

XH-2  
 XH-3  
 NAVY

4.15 R. F. High Voltage Power Supply - ☐

RIK [signature]  
 file FC 3011  
 Reports STAT

The 3M adhesive sample arrived and was used to bond one R.F. unit of Rexolite. After 5 cycles of thermal shock (-55° to +85°- 2 HR at each temperature) two sides of the box fell off and two other seams were loose. A last resort is to use non-metallic screws for support; meanwhile, an attempt to obtain a fused joint of the Rexolite will be made.

All

6.22 P. E. Cell - ☐

STAT

Three P. E. Cell Test Sets are being built and tested to establish the sensitivity of P. E. Cells. All sets have been built and tested. A standard P. E. Cell will be included with each set for calibration at each usage. We are keeping a prime standard P. E. Cell for periodic calibration of each test set standard. The rough draft of the specification (T-632041) for P. E. Cell 595R017H01 (IRC type B10-M) has been written.

Time  
 Shared

13.22 AGC - Friedmann, ☐

STAT

Design a new AGC that will be less susceptible to r-f interference and to stray audio pickup.

Drafting has finished all drawings for the new AGC. They are being checked by Engineering.

All

20.14 Pulse Width - ☐

STAT

Several unsuccessful attempts have been made to shorten the r-f envelope pulse to 0.10 us maximum. A new pulse transformer is now available and will be used in further investigation.

